

ASSUMPTIONS FOR THE CVPIA PROVISIONS IN PRELIMINARY PREFERRED ALTERNATIVE

CVPIA Provision	Description of Provision	Component of Provision	Preferred Alternative Content	Analysis of Preferred Alternative Contents in Draft PEIS	Change in Model Assumptions due to Preferred Alternative
3404(a)	New Contracts				
		Approval of new contracts	No new water service contracts contracts	Same as in All Alternatives	No
3404 (c)	Contract Renewals				
		Renewal for 25 years	Renew for 25 years and at no more than existing contract amounts, subject to beneficial use/needs analysis and associated biological opinion requirements	Same as in All Alternatives. Draft PEIS assumed that results of needs analysis and biological evaluation could be represented by a maximum contract amount for water service contracts equal to the amount evaluated in previous land use plans and associated environmental documentation, or by maximum amount used in recent years, whichever is greater. The contract amount cannot exceed existing contract amounts.	No
		Agricultural water service contracts reliability	Maximize deliveries based upon hydrology, other water right commitments, and operational constraints under biological opinions. Deficiencies allocated to agricultural users prior to M&I users. No maximum deficiency criteria for agricultural water service contractors.	Same as in All Alternatives	No
		M&I water service contracts reliability	Maximize deliveries based upon hydrology, other water right commitments, and operational constraints under biological opinions. M&I water service contract deficiencies initiated following 25% deficiencies for agriculture. No maximum deficiency criteria for M&I water service contractor.	Same as for M&I users on American River in All Alt if water was not available. In Draft PEIS only applies to American River M&I users during extremely critical dry years. Extension of deficiency allocation to all M&I water service contracts in all divisions. Need to show that this would not affect comparison of alternatives.	Reduce M&I up to 25%, if Shasta Lake less 1.2 maf than reduce up to 50%
		Delivery to areas outside of CVP Service Area	Incorporate proposed Change in Place of Use from SWRCB DEIR. This is a continuation of existing management policy.	Same as in All Alternatives	No
3405(a)	Water Transfers of CVP Water				
		Water transfers of CVP water	Support Water Transfers from CVP users to non-CVP users under CVPIA	Evaluated in Alt 1e, 1f, 2b, and 2c	No
		Additional water transfer fee	Include Water Transfer Fee of \$25/af as in CVPIA. No additional transfer fee.	Same as in Alt 1e and 2b	No
		Sunset Clauses	Includes renewal of clauses that would sunset in CVPIA as of September 30, 1999 because cannot foresee why these items would change, including: 3405(a)(1)(D) - transfers would be consistent with CEQA other state laws 3405(a)(1)(F) - transfers subject to first right of refusal 3405(a)(1)(J) - transfers could not cause long-term groundwater impacts 3405(a)(1)(K) - transfers could not have affect other water users 3405(a)(2) - Review procedures for transfers	Same as in Alt 1e, 1f, 2b, and 2c	No
3405(b)	Measurement of Water Use				
		Measurement of water use	Agricultural & M&I: Measured at every turnout for each customer, unless not cost-effective or beneficial, in accordance with Administrative Proposal. <u>Is the reason for this because measurement at each customer needed to implement tiered pricing to ensure water conservation????????</u>	Evaluated in Agricultural Economics Technical Appendix as a separate scenario	No

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3405 (c)	Compliance with State and Federal Water Quality Requirements				
		Inclusion in contracts	Require that contractors meet all applicable State and Federal water quality laws	Same as in All Alternatives	No
		Application to CVP operations, including meeting Bay-Delta Plan Accord and WRO 95-06	Meet to the best of the capability of CVP water supplies, but subject to meeting other legal water rights and biological opinions	Same as in All Alternatives	No
3405(d)	Water Pricing Modification				
		Water pricing with tiered pricing	Cost of Service to Full Cost with Ability-to-Pay due to reasonable balance of water conservation impacts with increased use of groundwater and economic impacts.	Same as in Alt 1, 1a-1b, 1d-1f, 1h-1i, 2, 2a-2d, 3, 3a, 4, 4a	No
		Separate tiered pricing schedule for Class II water or water used for groundwater recharge	<u>NEED TO DEVELOP</u>	Tiered pricing applied to Class II supplies as for other agricultural water supplies	May need changes to CVPM cost assumptions
3405(e)	Water Conservation Standards				
		Implementation of additional water conservation measures	Provisions presented in Ag Econ TA implemented by all agricultural agencies unless prohibitively expensive.	Same as in All Alternatives	No
3406(b)(1)	Anadromous Fish Restoration Program				
		Fish Management Packages	<u>Implementation of non-flow actions in Attachment F of Draft PEIS?????</u>	Same as in All Alternatives	No
3406(b)(1) "other"	Fish and Wildlife (b)(1) "other" Program				
		Implementation of Habitat Restoration Measures not specifically addressed in other provisions of CVPIA	<u>Implementation of measures listed in Attachment H of Draft PEIS through CVP Conservation Program or this program?????</u>	Same as in All Alternatives	No

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3406(b)(2) & 3406(b)(1)(B)	Reoperation of the Anadromous Fish Restoration Program Goals & Management of 800,000 at to meet Anadromous Fish Restoration Program Goals				
	Bay-Delta Plan Accord Flow Provisions	Implement Bay-Delta Plan Accord and WRO 95-06 through operational constraints on CVP and SVP operations, as under interim program. Changes may occur through SWRCB actions and accompanying environmental documentation.	Same as in All Alternatives	Models will need to be modified due to recent changes in PROSIM hydrology assumptions. Includes PROSIM, SANJASM, CVGSM, & CVP. Need to review impacts to water quality, recreation, and IMPLAN model runs.	
	In stream-Component Flow Provisions	Implement instream actions for Clear Creek, Sacramento River, American River, and Stanislaus River as described in Attachment G of Draft PEIS	Same as in All Alternatives	Models will need to be modified due to recent changes in PROSIM hydrology assumptions. Includes PROSIM, SANJASM, CVGSM, & CVP. Need to review impacts to water quality, recreation, and IMPLAN model runs.	
	Delta Component Flow Provisions	Operate in accordance with operational considerations for VAMP, Sacramento River, San Joaquin River, Delta, and export pumping operations. Provisions based on Administrative Paper for 3406(b)(2)	Similar to All Alternatives, except: (1) Add VAMP-like provisions - largest change is pulse flow and changes to exports (2) X2: slight change from All Alt (3) Sac R Flows: slight change from All Alt (4) Export pump operations ramping - no change from All Alt (5) July operations - slight change Add Joint Point of Diversion & Water Reserve Account using Groundwater Banking up to 450,000 at in Madera, Fresno, and Kern counties as a mitigation measure for reduced water delivery reliability Need to show that this would not affect comparison of alternatives.	Models will need to be modified for VAMP, X2, Sac R flows, Export ramping, and operations during July. Includes PROSIM, SANJASM, CVGSM, & CVP. Need to review impacts to water quality, recreation, and IMPLAN model runs.	
3406(b)(3)	Acquisition of Supplemental Water				
	Purchase of water from willing sellers	Purchase all available water on all tributary streams subject to funding limitations. Need to determine if water is also purchased to meet Delta purposes and therefore is "exportable". Could export 50% of acquired water. Does not include re-sale of water economic analysis.	Bounded by Alt 1 and Alt 3 & 4.	Purchase about 170,000 af for increased instream flows: need to complete allocation on rivers, but approximately 100,000 af on San Joaquin River Tributaries, 70,000 af on Sac River Tributaries.	
3406(b)(4)	Reduce impacts to fish at Tracy Pumping Plant	Add screens or other structures to reduce take	Implement program. Complete future study to determine design and operational criteria.	Same as in All Alternatives	No
3406(b)(5)	Reduce impacts to fish at Contra Costa Pumping Plant	Add screens or other structures to reduce take	Implement program. Complete ongoing study to determine design and operational criteria.	Same as in All Alternatives	No

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3406(b)(6)	Shasta Temperature Control Device				
		Authorization for construction and funding of Shasta Temperature Control Device	Implement program and fund through Restoration Fund.	Same as in All Alternatives	No
3406(b)(8)	Pulse Flow Releases				
		Develop seasonal flow changes (April, May, June, Oct)	Implement seasonal pulse flows with adaptive management program as summarized in Attachment G of Draft PEIS	Same as in All Alternatives	No
3406(b)(9)	Minimize Flow Fluctuations				
		Modify release patterns to minimize daily, weekly, and severe monthly flow fluctuations	Minimize flow fluctuations with adaptive management program. Continue to attempt to operate CVP facilities to maximize generation of high value power following compliance with other operational criteria.	Same as in All Alternatives	No
3406(b)(10)	Modify Red Bluff Diversion Dam Fish Protection Facilities				
		Modify gate operations and structure	Complete ongoing study to determine design and operational criteria.	Same as Alt 1, 1a - 1h, 2, 2a-2d, 3, 3a, 4, 4a	No
3406(b)(11)	Modify Coleman Fish Hatchery				
		Modify facilities	Implement program. Complete future study to determine design and operational criteria.	Same as in All Alternatives	No
3406(b)(12)	Restore Clear Creek Habitat				
		Improve streambed and fish ladder	Implement program. Complete future study to determine design and operational criteria.	Same as in All Alternatives	No
3406(b)(13)	Improve Spawning and Rearing Habitat				
		Improve streambeds and channels	Implement program as outlined in Attachment F of Draft PEIS. Complete future study to determine design and operational criteria.	Same as in All Alternatives	No
3406(b)(14)	Modify Operations and/or Structures at Delta Cross Channel and Georgiana Slough				
		Modify operations and structures	Implement program. Complete future study to determine design and operational criteria.	Same as Alt 1b and 2a, with need for additional study to further refine	No

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3406(b)(15)	Modify Operations and/or Structures at Old River Barrier				
		Modify operations and structures	Continue to operate seasonal barrier. Implement program. Complete future study to determine design and operational criteria.	Same as Alt 1b and 2a, with need for additional study to further refine	No
3406(b)(17)	Modify Operations and/or Structures at Anderson-Cottonwood Irrigation District				
		Modify operations and structures	Implement program. Complete future study to determine design and operational criteria.	Same as in All Alternatives	No
3406(b)(18)	Restore Striped Bass Fishery				
		Improve streambeds and channels	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No
3406(b)(19)	Use of CVP Carryover Storage for AFRP				
		Use of carryover storage at Shasta and Trinity reservoirs to improve flows for anadromous fish	Under AFRP and (b)(2) operations, consideration has been given to carryover and temperature objectives in terms of balanced operations	Same as in All Alternatives	No
3406(b)(20)	Modify Glenn-Colusa Irrigation District Diversion				
		Modify operations and structures	Implement program.	Same as in All Alternatives	No
3406(b)(21)	Reduce fish losses at diversions				
		Modify structures	Implement program. Complete future study to determine design and operational criteria.	Same as in All Alternatives	No
3406(b)(22)	Flooding Fields for Enhanced Waterfowl Habitat				
		Provide incentives and water for field flooding	<u>Program continues for the Study Period @ \$2M/yr of Restoration Fund costs. Flood release waters were used to fill fields.</u>	Same as in All Alternatives	No
3406(b)(23)	Implement recommendations of Trinity River Flow Evaluation Study				
		Modify minimum instream flow releases in Trinity River	Release 390,000 to 750,000 instream minimum flows as in Draft PEIS or implement Flow Recommendation Study alternative under Trinity River program. <u>Did not assume use of Restoration Funds for Trinity River habitat improvement actions</u>	Same as in All Alternatives	<u>Use Preferred Alternative operations from Trinity River EIS????</u>

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3406(c)(1)	San Joaquin and Stanislaus Rivers Studies				
		Evaluate changes in operations	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No
3406(c)(1)	Friant Division Surcharge				
		Water Pricing - Friant Division Surcharge	Continue Friant Division pricing surcharge continues because Preferred Alt does not include restoration program for San Joaquin River	Same as in All Alternatives	No
3406(d)(1)	Level 2 Refuge Water Supply				
		Provide CVP water supply for Level 2 Refuge Water Supplies	Quantities as described in Draft PEIS, Refuge Water Supply Study, and San Joaquin Basin Plan of Action	Same as Alts 1, 1a-1i, 2, 2a-2d, 3, 3a, 4, 4a	No
3406(d)(2)	Level 4 Refuge Water Supply				
		Acquire water supply for Level 4 Refuge Water Supplies	Water purchased from willing sellers, with deficiencies based on reductions of water sources	Same as Alts 2, 2a-2d, 3, 3a, 4, 4a	No
3406(d)(4)	Level 2 Water Supply Delivery Reductions in Dry Years				
		Reduce deliveries in dry years	Maximize deliveries based upon hydrology, other water right commitments, and operational constraints under biological opinions. Level 2 deficiencies initiated following 25% deficiencies for agriculture. No maximum deficiency criteria for Level 2.	Extension of deficiency allocation to Level 2. Need to show that this would not affect comparison of alternatives.	Deficiencies per hydrologic criteria, 40-30-30 with 25% reduction, if Shasta Lake storage is less than 1.2 maf than up to 50% reduction.
3406(d)(5)	Construct Conveyance Facilities for Refuges				
		Construct conveyance facilities (for Levels 2 and 4)	New facilities constructed. Site specific documents would be completed to address technical and environmental issues.	Slightly different than in all alternatives	May need to address reductions in conveyance losses
3406(d)(6)	Evaluate Methods to Improve Wetlands				
		Evaluate development of new wetlands	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No
3406(e)	Supporting Investigations				
		Several studies to improve fish and wildlife habitat	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No

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3407	Collection of Restoration Fund				
		Water Pricing - Restoration Fund	Collection of Restoration Fund from all water service contracts and preference power users. Need to review future Administrative Proposal for Restoration Fund	Same as in All Alternatives	No
3408(b)	Use of Project Use Energy Load for Fish and Wildlife Needs				
		Use of Project Use Energy for Fish and Wildlife Needs, such as energy for pumping on refuges	NEED INPUT??????????		
3408(c-d)	Coordination with non-CVP water users to improve water management				
		Storage of CVP water in non-CVP facilities, and/or use of CVP facilities for water banking	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No
3408(h)	Land Retirement				
		Land retirement as part of the San Joaquin Valley Drainage Plan	Implement land retirement recommendations of SJVDP with or without purchase of water with retired land. Consider purchases or long-term leases of land within the CVP service area.	Total acreage to be retired under CVPIA could exceed 30,000 acres evaluated in Draft PEIS alternatives. Revegetation considered under Alt 1h	Possibly
3408(j)	Project Yield Increase				
		Develop water resource projects to increase CVP yield	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No
3412	Extension of the Tehama Colusa Canal				
		Extend the TCC and Identify Extension of the Service Area to be served by water conveyed in the extended canal	Conduct future studies, not addressed in Preferred Alt	Same as in All Alternatives	No